Fig. 1

Parallel Fan Powered VAV Terminal w/ heat Delivery Book

MO	DEL VERIFICATION		Unit Tag (FPVAV)
	•		VAV A-4
1.	Manufacturer	Submitted	
		Delivered	
2.	Model Number	Submitted	
		Delivered	
3.	Max/Min Airflow (cfm)	Submitted	/
		Delivered	1
4.	Serial Number	Submitted	N/A
		Delivered	
5.	Inlet Diameter, inches	Submitted	
	·	Delivered	
6.	Heating MBH/gpm	Submitted	1
	•	Delivered	/
7.	Fan Power/Speed,	Submitted	1
	(hp/rpm)	Delivered	/
8.	Total Static Pressure, in	Submitted	
	w.g.	Delivered	
Pł	IYSICAL CHECKS	<u> </u>	
1.	The box is free of physical	damage	yes / no
2.	The air openings to the box with durable plastic	are sealed	yes / no
3.	The airflow sensing tubing	is plugged	yes / no
4.	The local electrical disconn proper location	ect is in the	yes / no
PI	HYSICAL CHECKS		
5.	The enclosure for the DDC is in the proper location	control pane	yes / no
6.	The grommets for the airflo tubing are secure	ow sensing	yes / no
7.		 	yes / no
8.	Manufacturer's ratings rea	dable/accurat	e yes / no
Ti	acking Cards	_	
1		na Card	VAV A-4
	Pull the Appropriate Tracki Labeled>		

"No" Responses:

Item	Reason for "No"	.,	Item	
				Ļ
				l

Pa	arallel Fan Powered VAV Terminal w/ heat #	(Fill in 1	ag #]
	Hanging	•	
	•	fill in box number]	
nstructi	ions: Step 1: Circle Yes or No, or fill in with requested informations Step 2: Explain all "No" responses at the bottom of the care Step 3: Attach bar code sticker from equipment when finish	d.	e.
tem		Resp	onse
	nit identification tag easily visible	Yes	No
	nit is individually supported from structure and not from adjacer	nt ductwork Yes	No
	dequate clearance around control box fro maintenance	Yes	No
	lear access below box to remove bottom access panel for easy	maintenance Yes	No
	etal to metal connections eliminated to prevent noise problems		No
	Il shipping and intallation materials are removed	Yes	No
	ox openings temporarily sealed to maintain system deanliness	Yes	No
	sponses		
Iten	Reason for "No"		
		Place Sticker Here	

	_ [Fill in Tag #]		
	Connecting Ductwork		•
	[fill in box number]		
nstru	octions: Step 1: Circle Yes or No, or fill in with requested information. Step 2: Explain all "No" responses at the bottom of the card. Step 3: Attach bar code sticker from equipment when finished, return card to your Field	d Supervisor.	
tem		Respo	nse
1	Balancing damper present on inlet duct	Yes	No
	1 1/2 diameters of straight ductwork installed prior to VAV box damper	Yes	No
- 3	Ductwork free of transitions for at least 36"	Yes	No
	Maintainable items (actuators, dampers, sensors, etc.) are accessible for easy maintenance	Yes	No
5	Flexible connector (vibration isolator) installed on inlet duct to avoid noise problems from	Yes	No
-	Flex duct is installed in a way that avoids formind kinks on both inlet and outlet ductwork	Yes	No
	metal to metal contact Flex duct is installed in a way that avoids formind kinks on both inlet and outlet ductwork Responses	Yes	<u> </u>

Fig. 4

	Piping Installation		
	fitt in box number	1	
struction	ns: Step 1: Circle Yes or No, or fill in with requested information. Step 2: Explain all "No" responses at the bottom of the card. Step 3: Attach bar code sticker from equipment when finished, return card t	o your Field Supervisor.	
ml		Respo	nse
	ng is fully supported	Yes	No
2 Cor	strol valve and maintainable items are accessible	Yes	No
3 The	following components are installed, from supply line to return line:	Yes	No
	valve		
	on-Coil-Union		
	nual air vent		
	e's Plug		
	ay automatic control valve		
	nual drain valve		
	nual flow meter valve		
o" Resp	Reason for "No"	Place Sticker Here	

Fig. 5

[Fill in Tag #] Parallel Fan Powered VAV Terminal w/ heat# **Controls Installation**

[fill in box number]

Instructions: Step 1: Circle Yes or No, or fill in with requested information.

Step 2: Explain all "No" responses at the bottom of the card.

Step 3: Attach bar code sticker from equipment when finished, return card to your Field Supervisor.

	Resp	onse	Į
Item	Yes	No	ı
Point-to-point connections of control wiring verified	Yes	No	ı
2 Temperature sensor calibration verified	Yes	· No	l
3 Central system accurately represents conditions of VAV box			,

Item	Reason for "No"

Place Sticker Here

	Parallel Fan Powered VAV Term	inal w/ heat #	[Fill in T	ag #]
		Electrical		
		[fill in box number]		
nstru	uctions: Step 1: Circle Yes or No, or fill in with Step 2: Explain all "No" responses at Step 3: Attach bar code sticker from e	requested information. the bottom of the card. equipment when finished, return card to y		
tem			· Respo	
1	Local disconnect installed in accessible local	ition	Yes	No
	Variable speed selector switch is operational	1	Yes	No
3	Motor rotation in proper direction		Yes	No
-3	P.E. switch is operational		Yes	No
1				
_	Responses Communication Reason for "No"			•••••

Controls Start-up				
				VAV A-4
1. Cooling/heating (when present) sequence of control correct			4	yes / no
2. Warm-up/o	wob-look	sequence of control correct		yes / no
3. Unoccupie	d sequer	nce of control correct	•••	yes / no
4				<u> </u>
"No"	Item	Reason for "No"	Iten	1
Responses:				
	<u> </u>			1
			·:	
			:	

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TAB			7			
			VAV A-4			
1. Modifying	. Modifying unit/system settings through temperature sensor working		yes / no			
2. Airflow ser	. Airflow sensor calibration verified					
3. Minimum	airflow, c	fm (design/measured)	1			
4. Maximum	airflow, o	zím (design/measured)				
'No"	Item	Reason for "No"				
Responses:	ļ					
	L					
	:					

Fig. 9

VAV Terminal w/ heat VAV A-4 Controls Start-up	VAV Terminal witheat VAV A-4 TAB	VAV Terminal w/ heat VAV A-4 Delivery Book
VAV Terminal w/ heat VAV A-4 Hanging	VAV Terminal w/ heat VAV A-4 Connecting Ductwork	VAV Terminal w/ heat VAV A-4 Piping Installation
VAV Terminal w/ heat VAV A-4 Controls Installation	VAV Terminal w/ heat VAV A-4 Electrical	

	Piping Installation			
	Date:			
	[fill in current date]	•		
ons: S	Step 1: Circle Yes or No, or fill in with requested information.			
9	Sten 2. Evolain all "No" responses at the bottom of the card.			
3	Step 3: Describe work completed today and return card to your Field Sup	pervisor.	•	
ltem	Task Description		Resp	onse
1	Piping is clean and free of damage prior to installation		Yes	No
2	Maximum support spacing is according to table on back, or closer as ne	ecessary	Yes	No
3	All connections meet specification requirements		Yes	No
4	All equipment requiring maintenance is accessible (valves, junction box	es, etc.)	Yes	No
5	All pipe openings temporary sealed to maintain duct system cleanliness	3	Yes	No
6	Record drawings have been updated to reflect any changes made		Yes	No
spons	ses 4			_
•	0.40.0	_4`_*1 18/_ml	Camp	lotod '
Item	Reason for "No" Briefly D	etail Work	Comp	leteu
			 	

•	Ductwork Installation Date:		
	[fill in current date]		
	Step 1: Circle Yes or No, or fill in with requested information. Step 2: Explain all "No" responses at the bottom of the card.		
	Step 3: Describe work completed today and return card to your Field Supervisor.		
ltom	Task Description	Resp	onse
1	Ductwork is clean and free of damage prior to installation	Yes	No
2 There are supports every 6 feet, or less as required			
3	All latitudinal and longitudinal joints are sealed (<1% leakage required)	Yes	No
4	All equipment requiring maintenance is accessible (valves, junction boxes, etc.)	Yes	No
5	All duct openings temporary sealed to maintain duct system cleanliness	Yes	No
6	Record drawings have been updated to reflect any changes made	Yes	No
o" Respon	ses		
Item	Reason for "No" Briefly Detail Wo	rk Comp	leted I
	·		

VAV Terminal Construction Checklist

XYZ Corporate Headquarters Equipment Number: VAV A-1

1) Model Verification

Data to Verify:	Specified	Submitted	Installed
Manufacturer			•
Model			
CFM (Max/Min)	1	1	1
Serial Number			
Inlet Diameter, inches			
Heating MBH/gpm			
Fan Power, hp			
Total Static Pressure, psig			}

2) Pre-Installation Checks

The following must be completed upon delivery of equipment to the work-site.

		Contractor	Initials	SSI
A	Physical Checks	Mechanical		
	There is no physical damage to the box	yes / no		
	The air openings to the box are sealed with durable plastic	yes / no	-	
	The airflow sensing tubing is plugged	yes / no		
	The local disconnect is in the proper location	yes / no		
	The enclosure for the DDC control panel is in the proper location	yes / no	-	
	The grommets for the airflow sensing tubing are secure	yes / no		
	Unit tags affixed	yes / no		
В	Component Verification	Mechanical		
	Manufacturer's ratings are readable	yes / no		
	Manufacturer's ratings are accurate	yes / no	<u> </u>	
	<u></u>			•

3) Physical Installation Checks

The following items need to be verified during installation. Fill in blanks with a checkmark, specific information, or circle "yes" or "no". For any negative responses, complete section 4.

,		Contractor	Initials	600
_	Hanging of Box	Mechanical		
A	Unit, damper, and air valve tags affixed	yes / no		
	Unit secured as required in specifications	yes / no		
	Adequate clearance around controls for O&M	,	. <u></u>	
	6" dearance in front of air valve for travel of inner valve rod	yes / no		
	1 1/2 duct diameters before the air valve	yes / no		
	No duct transitions upstream of box for 30"	yes / no		
	No obstructions below box to remove bottom access panel	yes / no		
		yes / no		
	Vibration isolators in good condition			
	No metal to metal connections to cause noise problems	yes / no		
	Box properly labeled (box tag easy to see)	yes / no Mechanical	 	
В	Ductwork - Primary Air Inlet			
	Primary ductwork all hard or maximum flex duct length of 1 foot	yes / no	<u> </u>	
	All inlet elbows long radius and no kinks in flex duct	yes / no		
	1 1/2 duct diameters prior to air valve	yes / no	<u> </u>	
	No transitions upstream for at least 36"	yes / no	<u> </u>	
	Record drawings accurate	yes / no		
	Vibration isolator if flex duct is not used	yes / no		
	Does not interfere with accessibility	yes / no		
C	Ductwork - Outlet	Mechanical	<u> </u>	
	Vibration isolator in place with no holes	yes / no		
	No kinks in flex duct	yes / no		
	Record drawings accurate	yes / no		
D	Controls	Controls		
	Control wiring hooked up	yes / no	<u> </u>	
	Temperature sensor hooked up	yes / no		
	Communication with central system	yes / no		
	Temperature sensor calibrated	yes / no		
	Cooling sequence of control correct (should be attached)	yes / no		
	Heating sequence of control correct (should be attached)	yes / no		
	Warm-up sequence of control correct (should be attached)	yes / no		
	Cool down sequence of control correct (should be attached)	yes / no		
	Unoccupied sequence of control correct (should be attached)	yes / no		
Ī			_	I are respectively.

E	Testing and Balancing (TAB)	TAB	
	Modifying unit / system settings throughout temperature sensor working	yes / no	
	Airflow sensor calibrated	yes / no	
	Actual min / max airflow (cfm)	1	

4) Negative Responses

For each negative response in sections 2 and 3, record the reason and resolution below. Attach extra sheets as necessary.

			·
Α	Item	Reason for Negative Response	Resolution
			·

XYZXYZ Corporate Headquarters

Return to Supervisor

Questions? Ask supervisor

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